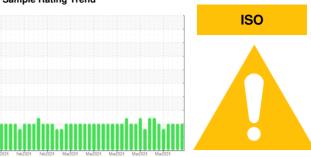


OIL ANALYSIS REPORT

Sample Rating Trend



Area WCLSNC Machine id QC230801HY

Hydraulic System

JOHN DEERE HY-GARD HYD/TRANS (--- GAL)

DIAGNOSIS

Recommendation

We recommend you service the filters on this component. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is a high amount of particulates present in the oil.

Fluid Condition

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0929388	WC0929387	WC0929386
Sample Date		Client Info		04 Apr 2024	03 Apr 2024	02 Apr 2024
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184	>47	47	72	41
Iron	ppm	ASTM D5185m	>78	81	91	73
Chromium	ppm	ASTM D5185m	>2	2	1	<1
Nickel	ppm	ASTM D5185m	>3	2	2	1
Titanium	ppm	ASTM D5185m	>2	<1	0	<1
Silver	ppm	ASTM D5185m	>2	0	0	<1
Aluminum	ppm	ASTM D5185m	>5	3	3	3
Lead	ppm	ASTM D5185m	>11	10	9	9
Copper	ppm	ASTM D5185m	>84	84	84	75
Tin	ppm	ASTM D5185m	>4	4	3	3
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		<1	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	6	125	109	97
Barium	ppm	ASTM D5185m	0	<1	0	0
Molybdenum	ppm	ASTM D5185m	0	2	0	0
Manganese	ppm	ASTM D5185m		24	24	20
Magnesium	ppm	ASTM D5185m	145	43	23	20
Calcium	ppm	ASTM D5185m	3570	3619	3687	3343
Phosphorus	ppm	ASTM D5185m	1290	1213	1262	1102
Zinc	ppm	ASTM D5185m	1640	1463	1482	1314
Sulfur	ppm	ASTM D5185m		3777	3670	3400
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>11	11	10	9
Sodium	ppm	ASTM D5185m	>23	19	20	18
Potassium	ppm	ASTM D5185m	>20	2	2	3
Water	%	ASTM D6304	>0.1669	0.053	0.058	0.057
ppm Water	ppm	ASTM D6304	>1669	536	585	574
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	290786	<u>^</u> 267103	▲ 367883
Particles >6µm		ASTM D7647	>1300	<u> </u>	<u>▲</u> 182757	<u>4</u> 249298
Particles >14μm		ASTM D7647	>160	4727	<u>▲</u> 7596	<u>▲</u> 11434
Particles >21μm		ASTM D7647	>40	<u> </u>	▲ 380	<u>▲</u> 759
Particles >38μm		ASTM D7647	>10	3	1	9
Particles >71μm		ASTM D7647	>3	1	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	25/25/19	<u>△</u> 25/25/20	<u>△</u> 26/25/21
FLUID DEGRADA	TION	method	limit/base	current	history1	history2



OIL ANALYSIS REPORT







Certificate 12367

Laboratory Sample No.

Lab Number

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : WC0929388 : 06138532 Unique Number : 10963340

Received : 04 Apr 2024 **Tested** : 10 Apr 2024

Diagnosed : 10 Apr 2024 - Jonathan Hester Test Package : IND 2 (Additional Tests: KF, KV100, PQ, VI)

To discuss this sample report, contact Customer Service at 1-800-237-1369.

 st - Denotes test methods that are outside of the ISO 17025 scope of accreditation. Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) T: (919)379-4102 F: (919)379-4050

Contact: WCLS CARY NC

501 Madison Ave

Cary, NC

US 27513

WEARCHECK LUBRICATION SERVICES QA ACCOUNT